

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#3

Application of: Blanset et al.

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For: SYSTEM AND METHOD FOR AUTOMATICALLY
CONFIGURED CROSS-CONNECTIONS IN A DIGITAL
SUBSCRIBER LINE ACCESS MULTIPLEXER (DSLAM)

Commissioner of Patents and Trademarks
Washington, D.C. 20231

TRANSMITTAL OF FORMAL DRAWINGS PRIOR TO NOTICE OF
ALLOWANCE

Attached please find the formal drawings for this application that have been corrected to
comply with 37 CFR 1.184 (18 Pages).

Telephone No. (770) 933-9500

Adam E. Crall, Reg. No. 46,646

THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.

100 Galleria Parkway, Suite 1750
Atlanta, Georgia 30339-5948

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CERTIFICATE OF MAILING (37 CFR 1.8)

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4-4-01

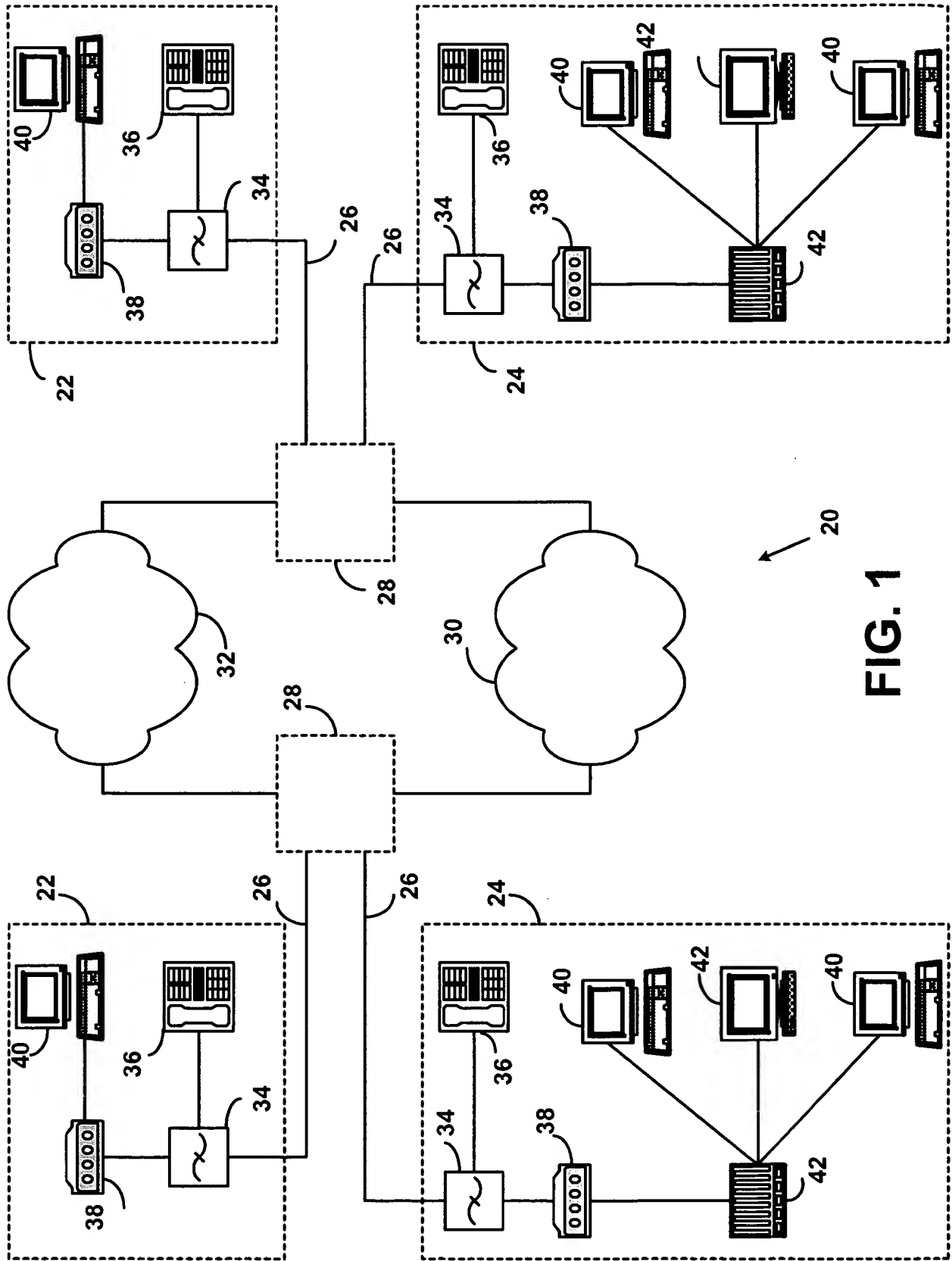


FIG. 1

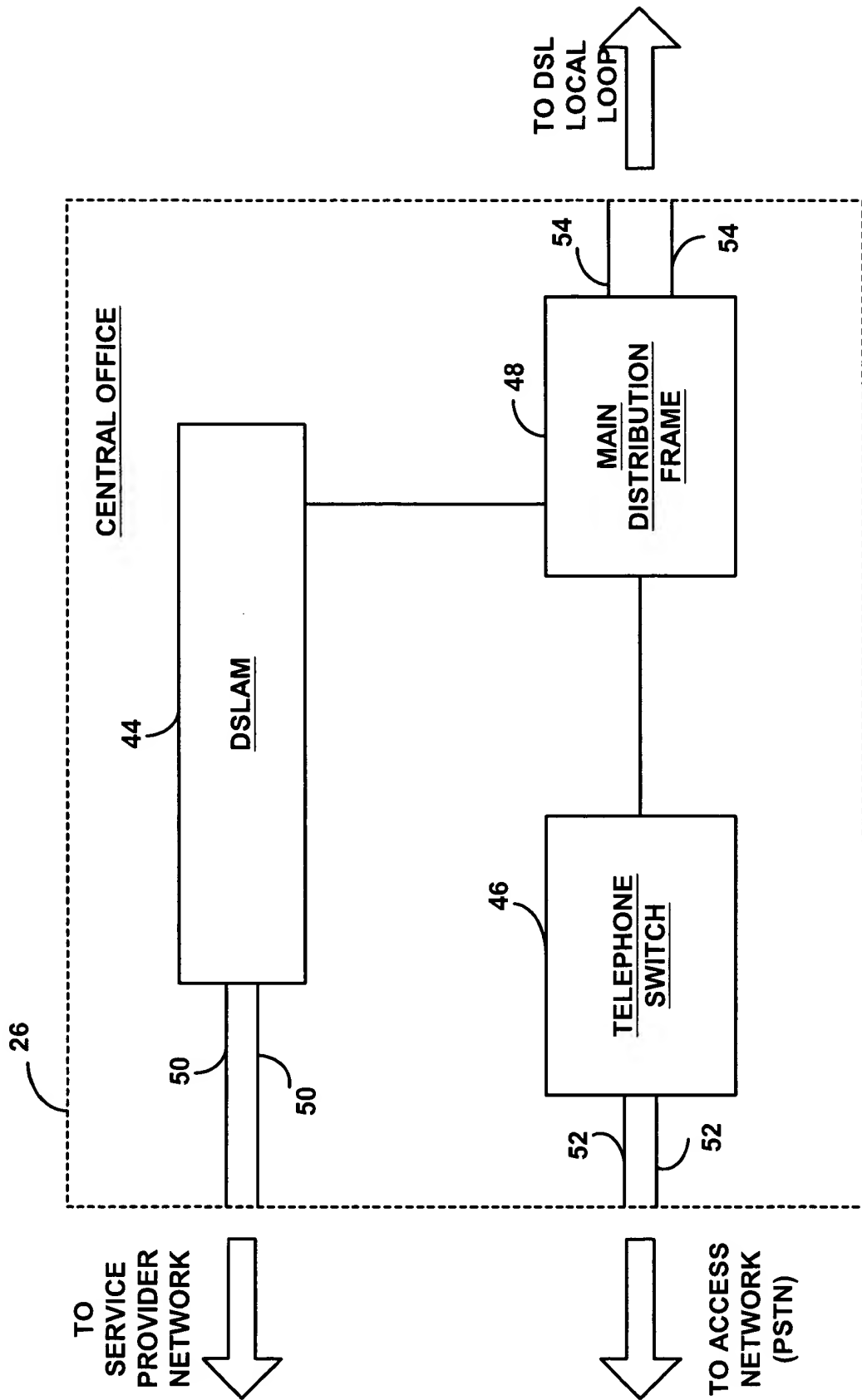


FIG. 2

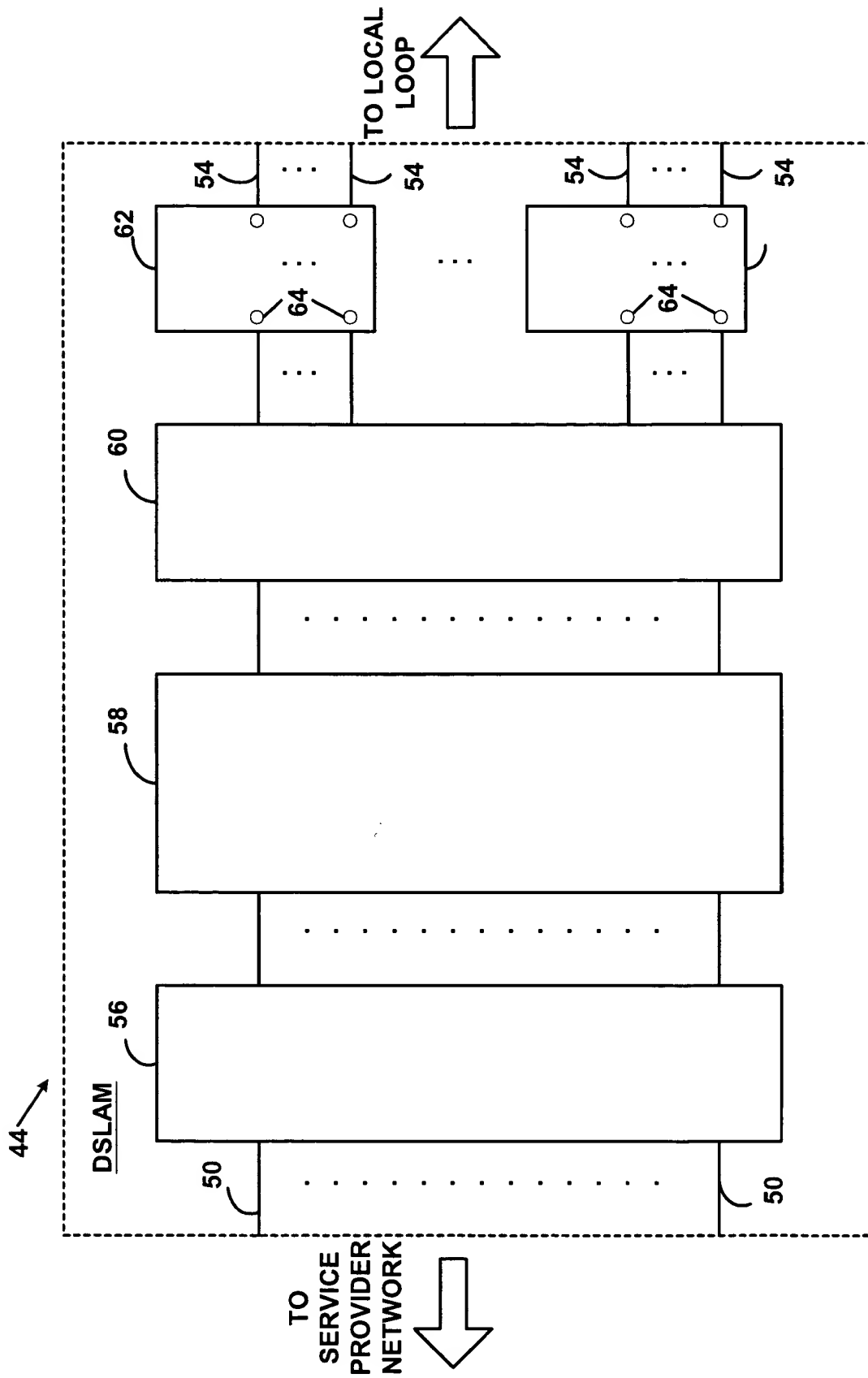


FIG. 3

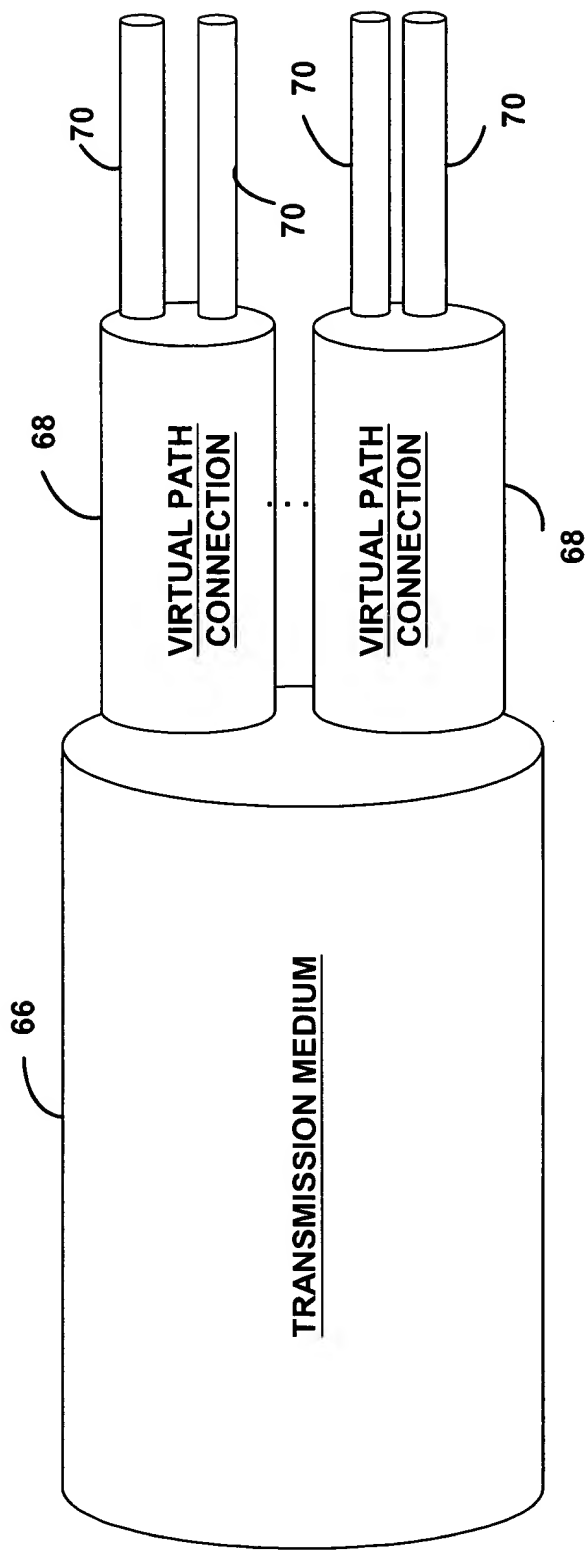


FIG. 4

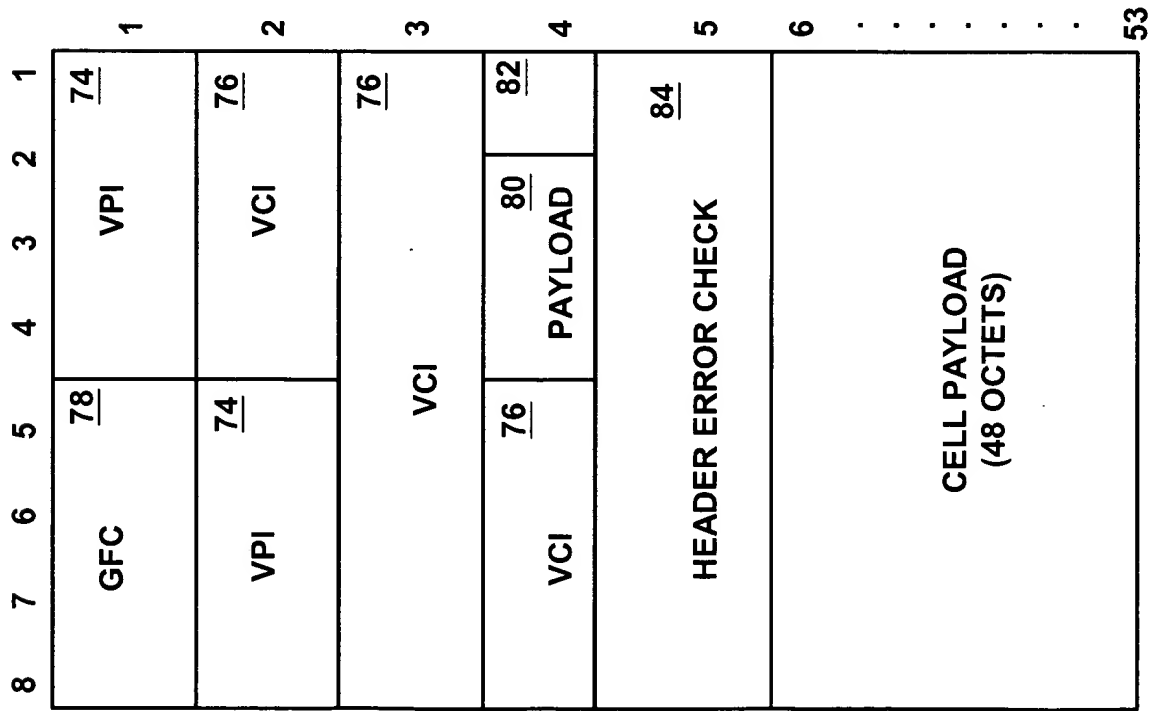


FIG. 5

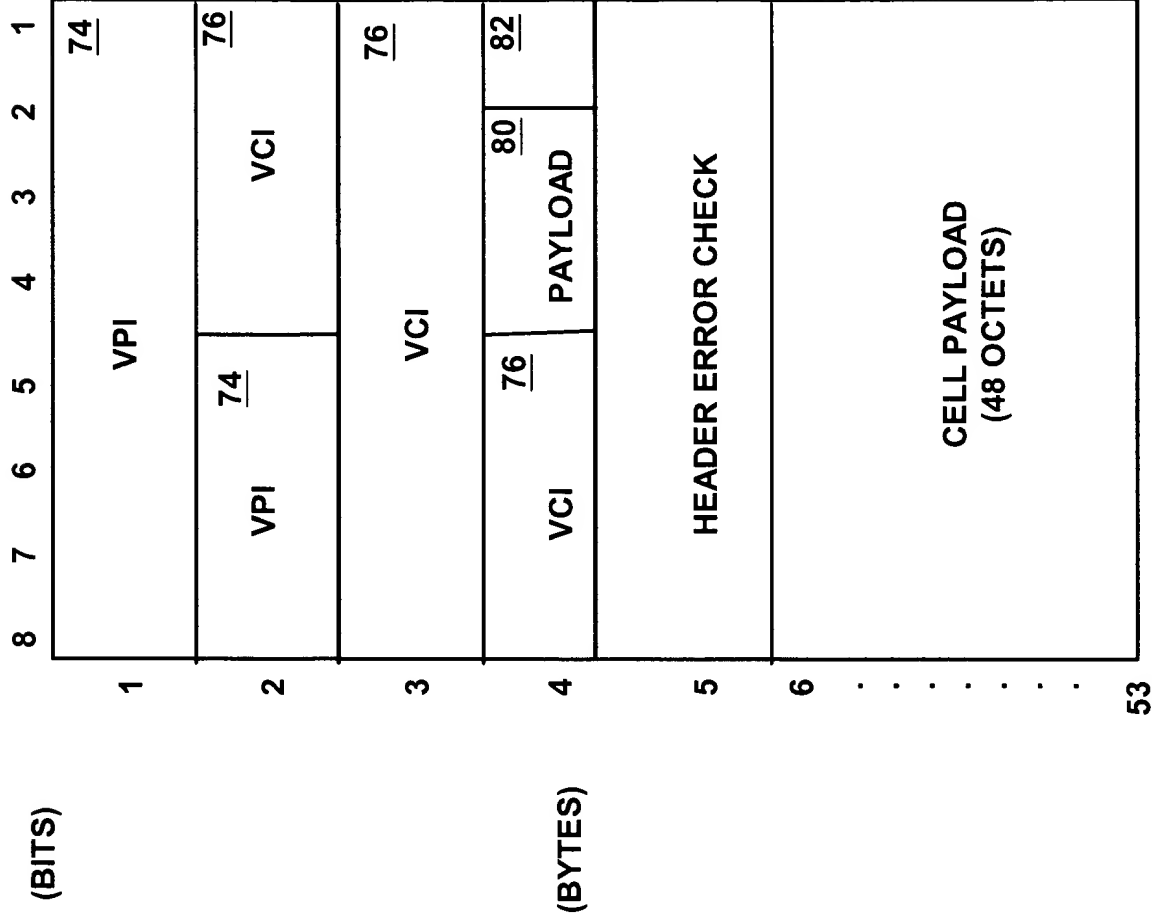


FIG. 6

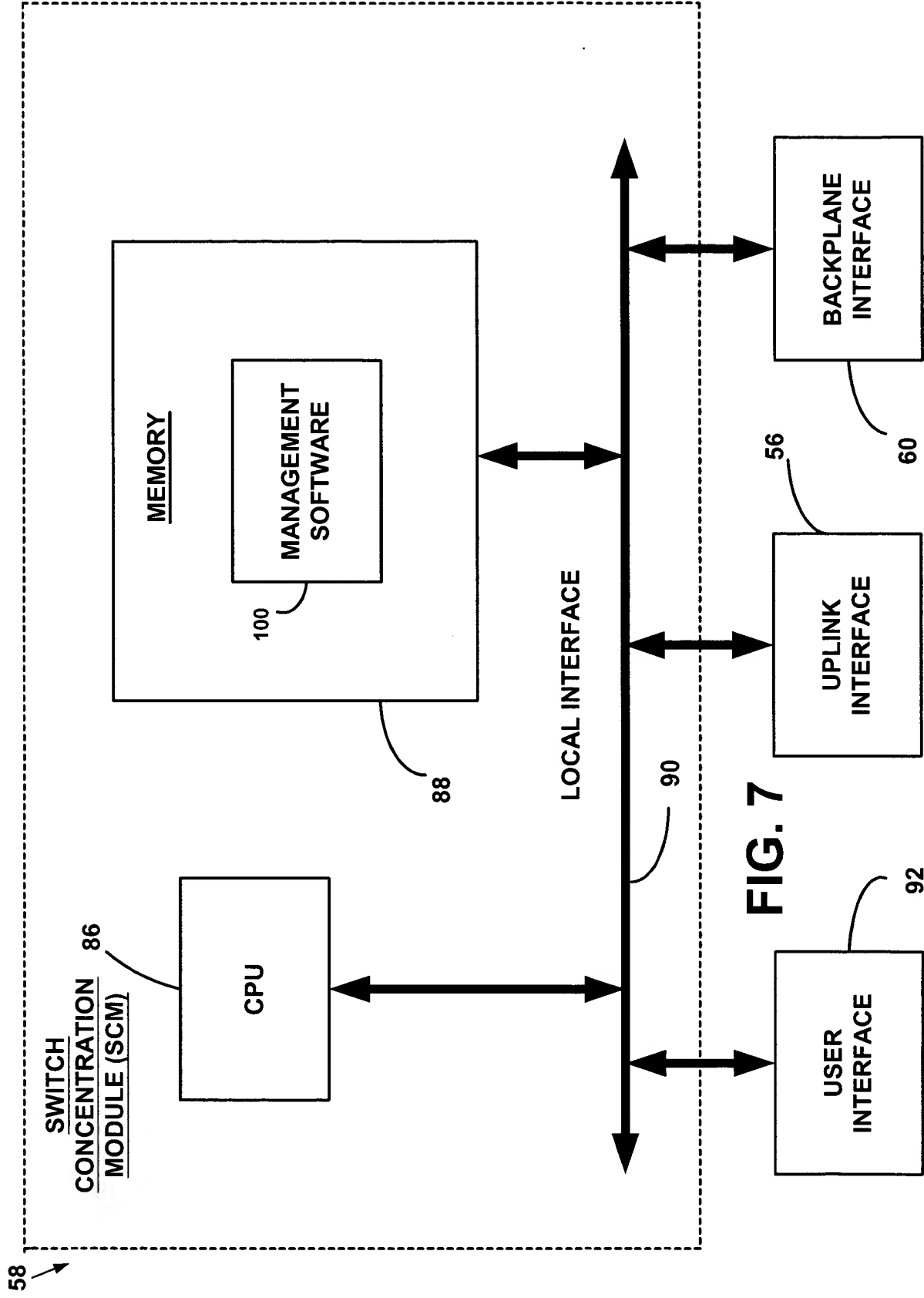


FIG. 7

6918

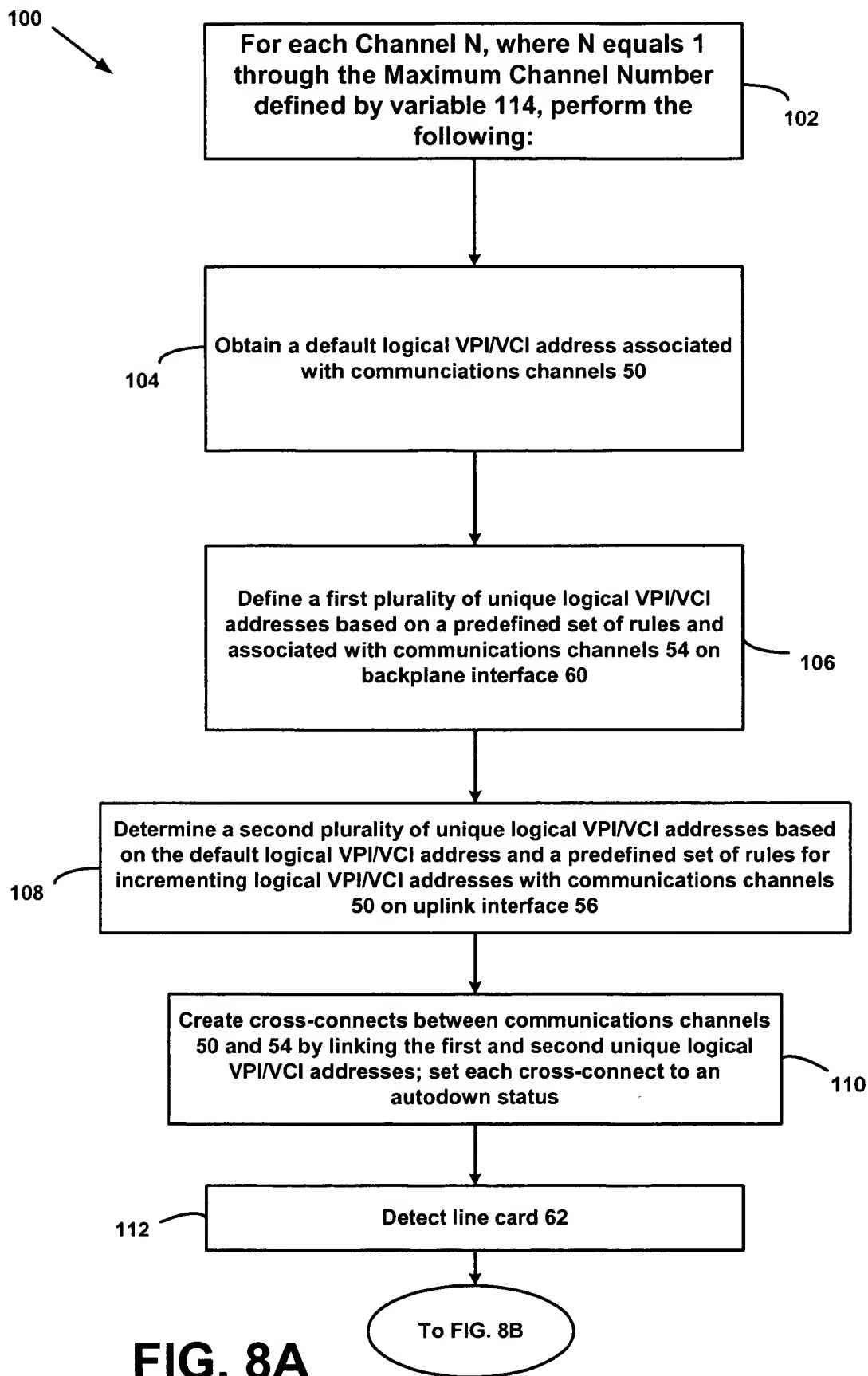


FIG. 8A

From FIG. 8A

FIG. 8B

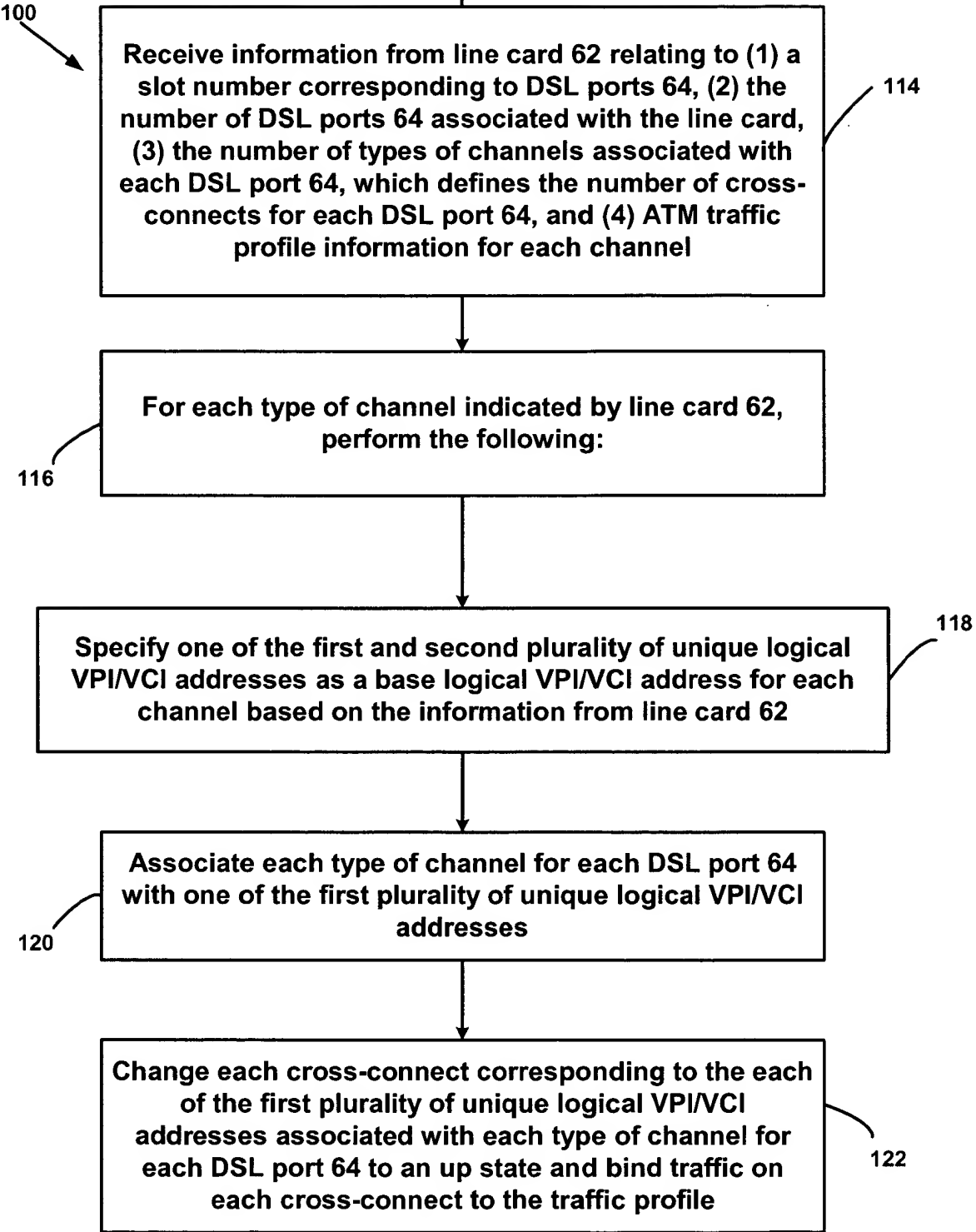


FIG. 8B

<u>144</u>	LINE CARD VARIABLE	VALUE
<u>146</u>	SLOT #	
<u>148</u>	NUMBER OF PORTS	
<u>150</u>	REQUESTED NUMBER OF CHANNELS PER PORT	
<u>152</u>	REQUESTED TRAFFIC PROFILE INDICATOR PER CHANNEL	

FIG. 9

<u>154</u>	DSL PORT VARIABLE	VALUE
<u>154</u>	DSL PORT #	
<u>156</u>	MAX VPI	
<u>158</u>	MAX VCI	
<u>160</u>	STATUS	
<u>162</u>	CONFIGURATION PARAMETERS (# channels, ATM parameters, upstream and downstream rate table, etc.)	

FIG. 10

<u>166</u>	BACKPLANE INTERFACE VARIABLE	VALUE
<u>168</u>	INTERFACE ID	
<u>170</u>	MAX VPI	
<u>172</u>	MAX VCI	
<u>174</u>	STATUS	
<u>176</u>	OTHER PARAMETERS	

FIG. 11

<u>178</u>	UPLINK INTERFACE VARIABLE	VALUE
<u>180</u>	INTERFACE ID	
<u>182</u>	MAX VPI	
<u>184</u>	MAX VCI	
<u>186</u>	STATUS	
<u>188</u>	OTHER PARAMETERS	

FIG. 12

FIG. 11

<u>190</u>	CROSS-CONNECT VARIABLE	VALUE
<u>192</u>	CROSS CONNECT ID	
<u>194</u>	IFINDEX1	
<u>196</u>	VPI1	
<u>200</u>	VCI1	
<u>202</u>	IFINDEX2	
<u>204</u>	VPI2	
<u>206</u>	VCI2	

FIG. 13

CROSS-CONNECTION TABLE		
210		
212	<u>UPLINK INTERFACE:VPI:VCI</u> [UPLINK INTERFACE = Ifup = 1] [VPI0 ≤ VPI ≤ VPI _m] [VCI0 ≤ VCI ≤ VCI _m] [p = number of ports per card] [c = number of cards in system]	216 <u>STATUS</u>
		214 <u>BACKPLANE INTERFACE:VPI:VCI</u> [IF1 ≤ BACKPLANE INTERFACE ≤ IFc] [VPI0 = fixed starting VPI] [VCI0 fixed starting VCI] [p = number of ports per card] [c = number of cards in system]
	IFup:VPI0:VCI0	IF1:VPI0:VCI0
	IFup:VPI0:VCI0+1	IF1:VPI0+1:VCI0
	IFup:VPI0:VCI0+p-2	IF1:VPI0+p-2:VCI0
	IFup:VPI0:VCI0+p-1	IF1:VPI0+p-1:VCI0
	IFup:VPI0:VCI0+p	IF2:VPI0/ VCI0
	IFup:VPI0:VCI0+p+1	IF2:VPI0+1:VCI0
	IFup:VPI0:VCI0+p*2-2	IF2:VPI0+p-2:VCI0
	IFup:VPI0:VCI0+p*2-1	IF2:VPI0+p-1:VCI0
	IFup:VPI0:VCI0+p*(c-2)	IF2:VPI0/ VCI0
	IFup:VPI0:VCI0+p*(c-2)+1	IF2:VPI0+1:VCI0

FIG. 14A

CROSS-CONNECTION TABLE		
210		
212	216	214
<u>UPLINK INTERFACE:VPI:VCI</u> [UPLINK INTERFACE = Ifup = 1] [VPI0 ≤ VPI ≤ VPI _m] [VCI0 ≤ VCI ≤ VCI _m] [p = number of ports per card] [c = number of cards in system]	<u>STATUS</u>	<u>BACKPLANE INTERFACE:VPI:VCI</u> [IF1 ≤ BACKPLANE INTERFACE ≤ IFc] [VPI0 = fixed starting VPI] [VCI0 fixed starting VCI] [p = number of ports per card] [c = number of cards in system]
IFup:VPI0:VCI0+p*(c-1)-2		IFc:VPI0+p-2:VCI0
IFup:VPI0:VCI0+p*(c-1)-1		IFc:VPI0+p-1:VCI0
IFup:VPI1:VCI1		IF1:VPI0:VCI1
IFup:VPI1:VCI1+1		IF1:VPI0+1:VCI1
IFup:VPI1:VCI1+p-2		IF1:VPI0+p-2:VCI1
IFup:VPI1:VCI1+p-1		IF1:VPI0+p-1:VCI1
IFup:VPI1:VCI1+p		IF2:VPI0/ VCI1
IFup:VPI1:VCI1+p+1		IF2:VPI0+1:VCI1
IFup:VPI1:VCI1+p*(c-2)		IF2:VPI0/ VCI1
IFup:VPI1:VCI1+p*(c-2)+1		IF2:VPI0+1:VCI1

FIG. 14B

CROSS-CONNECTION TABLE		
210		
212	216	214
UPLINK INTERFACE: VPI: VCI	STATUS	BACKPLANE INTERFACE: VPI: VCI
[UPLINK INTERFACE = Ifup = 1] [VPI0 ≤ VPI ≤ VPIIm] [VCI0 ≤ VCI ≤ VCIm] [p = number of ports per card] [c = number of cards in system]		[IF1 ≤ BACKPLANE INTERFACE ≤ IFc] [VPI0 = fixed starting VPI] [VCI0 fixed starting VCI] [p = number of ports per card] [c = number of cards in system]
Ifup: VPI1: VCI1+p*(c-1)-2		IFc: VPI0+p-2: VCI1
Ifup: VPI1: VCI1+p*(c-1)-1		IFc: VPI0+p-1: VCI1
Ifup: VPIIm: VCIIm		IF1: VPI0: VCIc-1
Ifup: VPIIm: VCIIm+1		IF1: VPI0+1: VCIc-1
Ifup: VPIIm: VCIIm+p-2		IF1: VPI0+p-2: VCIc-1
Ifup: VPIIm: VCIIm+p-1		IF1: VPI0+p-1: VCIc-1
Ifup: VPIIm: VCIIm+p		IF2: VPI1/ VCIc-1
Ifup: VPIIm: VCIIm+p+1		IF2: VPI2: VCIc-1
Ifup: VPIIm: VCIIm+p*(c-2)		IF2: VPI0/ VCI0
Ifup: VPIIm: VCIIm+p*(c-2)+1		IF2: VPI0+1: VCI0

FIG. 14C

14818

<u>220</u>	VCL VARIABLE	VALUE
<u>222</u>	IFINDEX	
<u>224</u>	VPI	
<u>226</u>	VCI	
<u>228</u>	TRAFFIC PROFILE UP	
<u>230</u>	TRAFFIC PROFILE DOWN	

FIG. 15

<u>232</u>	AUTO-CONFIGURATION RECORD	
	AUTO-CONFIGURATION VARIABLE	VALUE
<u>234</u>	INTERFACE ID	
<u>236</u>	CHANNEL	
<u>238</u>	BASE VPI	
<u>240</u>	BASE VCI	

FIG. 16

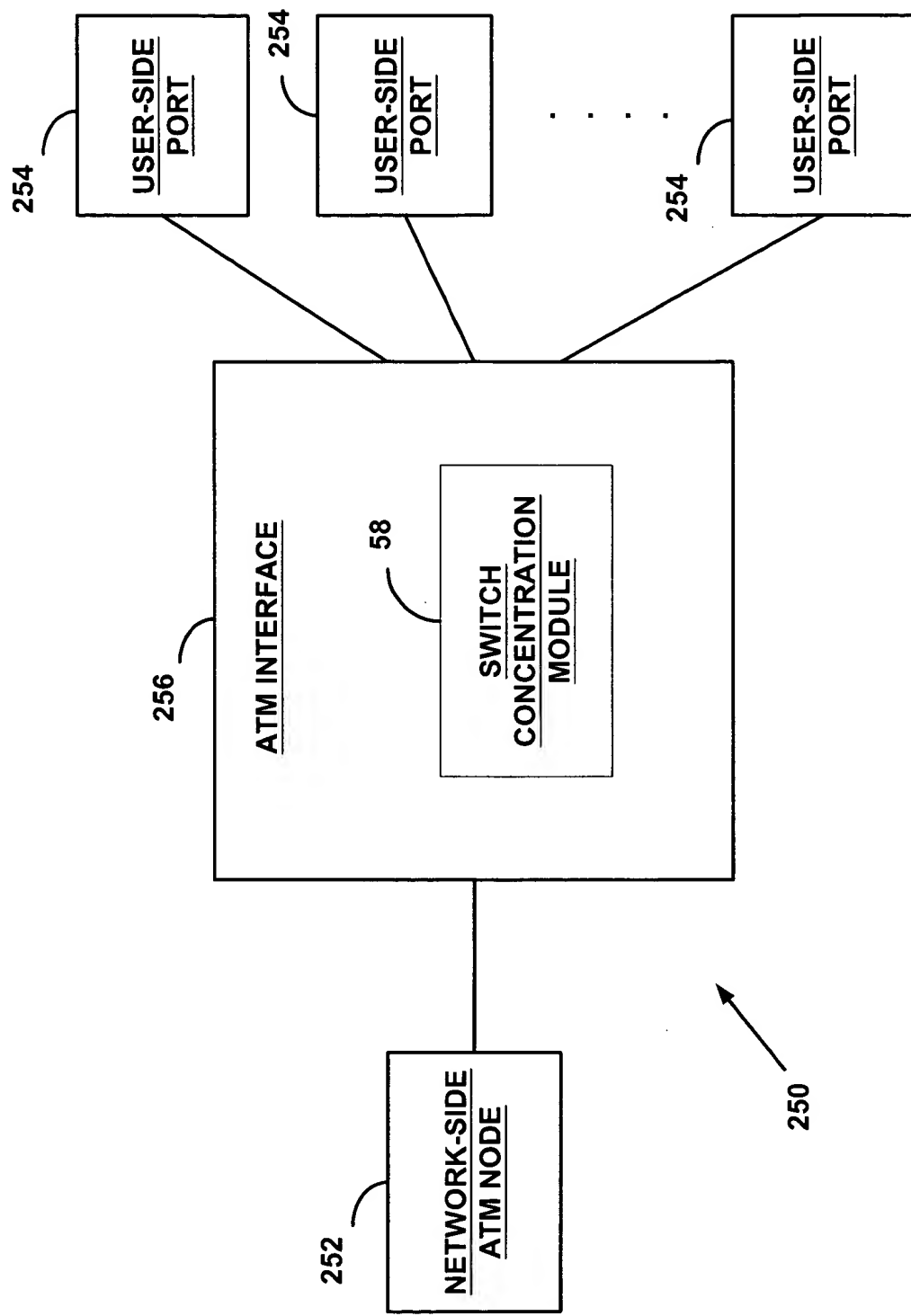


FIG. 17

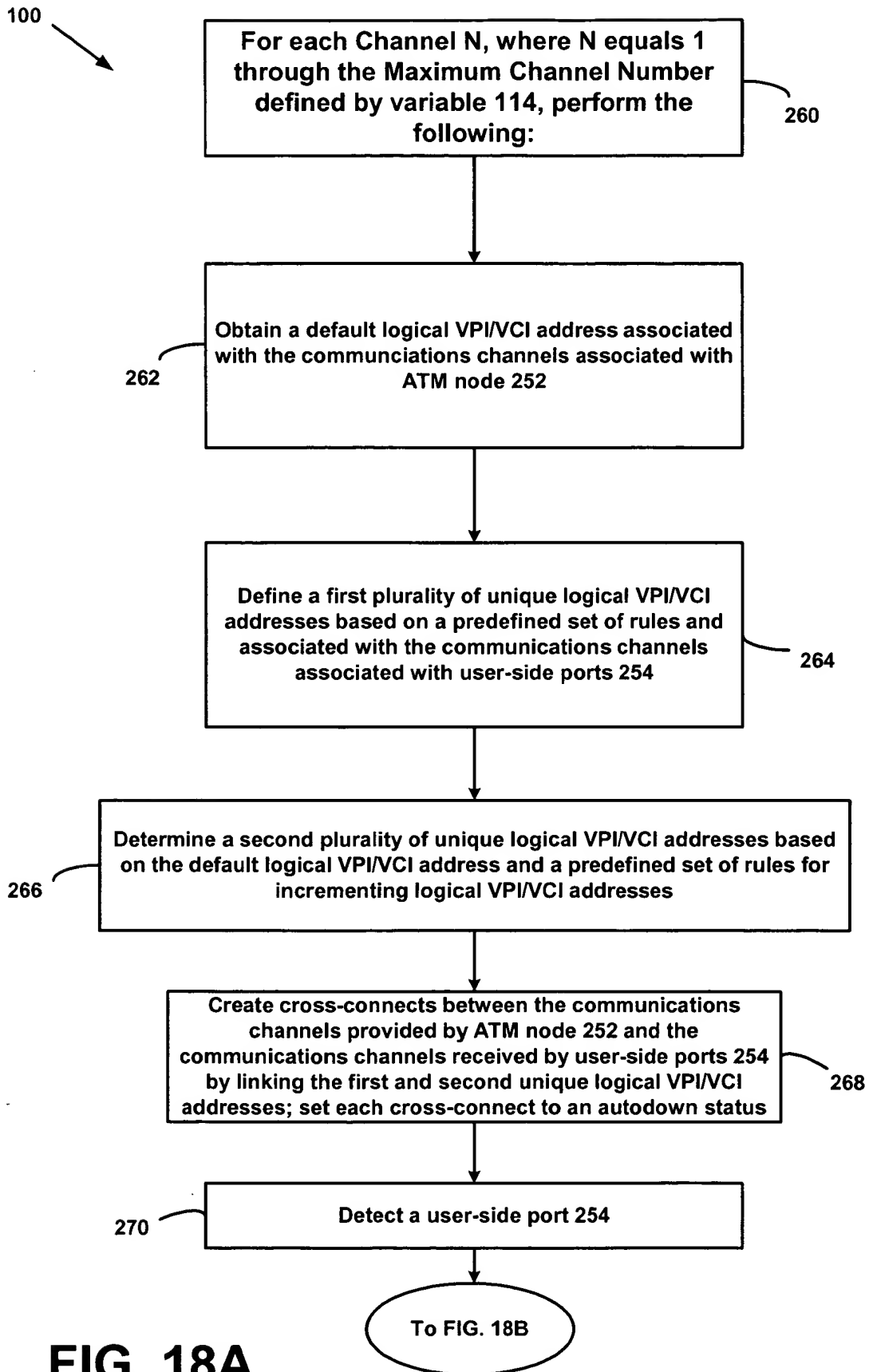


FIG. 18A

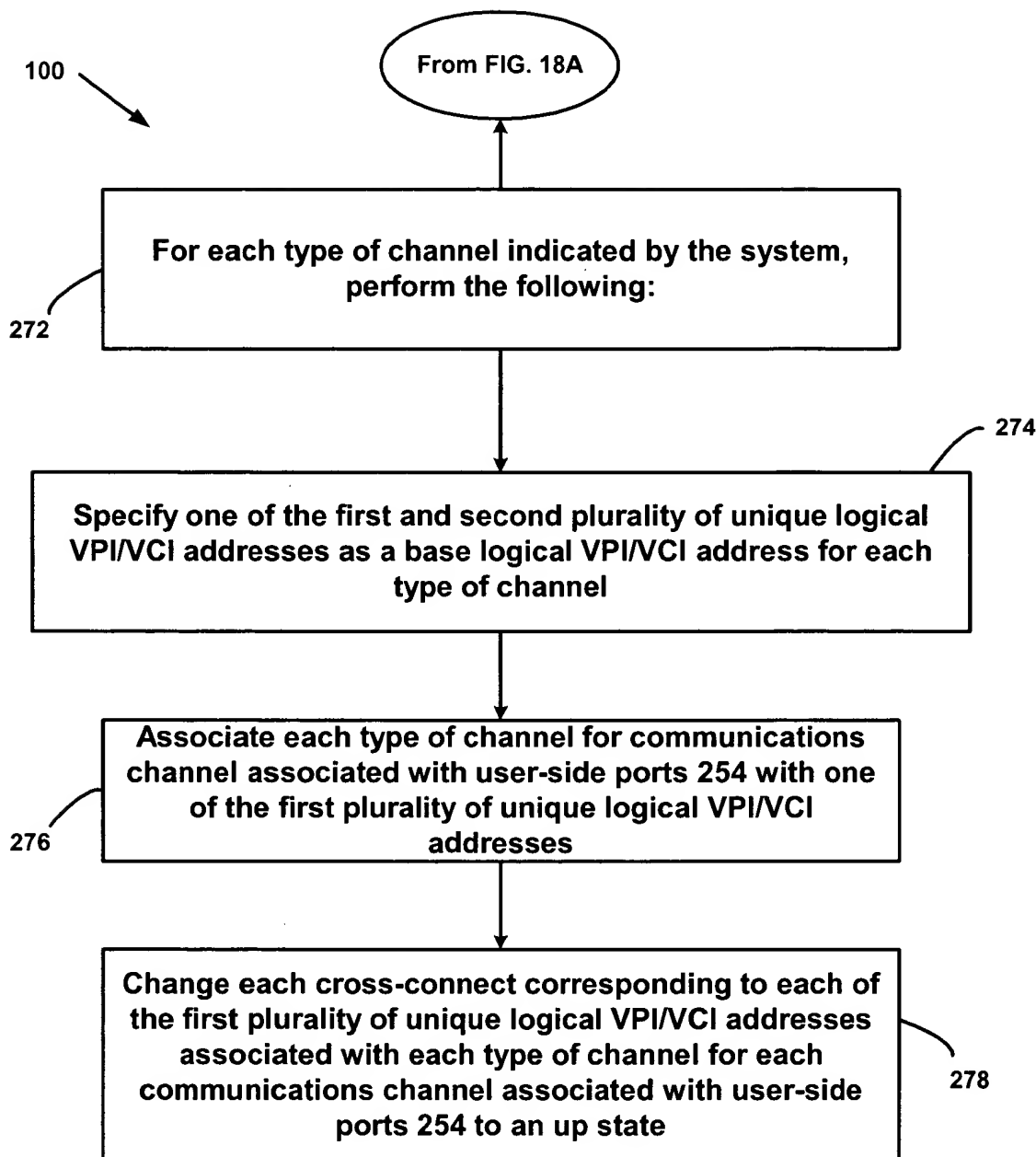


FIG. 18B